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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
		09/927,712	FUJITA ET AL.			
	Office Action Summary	Examiner	Art Unit			
		Apu M Mofiz	2165			
Period fo	The MAILING DATE of this communication ap or Reply	ppears on the cover sheet with the	correspondence address			
A SH THE - Exte afte: - If th - If NO - Faili Any	HORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1. r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a rep O period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statuf reply received by the Office later than three months after the mailined patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be a ply within the statutory minimum of thirty (30) da d will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDON	timely filed ays will be considered timely. In the mailing date of this communication. IED (35 U.S.C. § 133).			
Status						
1) 又	Responsive to communication(s) filed on 03 u	January 2005.				
,—		s action is non-final.				
· · · · ·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposit	ion of Claims					
5)□ 6)⊠ 7)□ 8)□ Applicat 9)□	Claim(s) are subject to restriction and/o ion Papers The specification is objected to by the Examine	awn from consideration. or election requirement. er.				
	The drawing(s) filed on 10 August 2001 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the E	e drawing(s) be held in abeyance. Section is required if the drawing(s) is of	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).			
Priority ι	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document Certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the certified copies of the priority document Copies of the	ts have been received. ts have been received in Applicat prity documents have been receiv nu (PCT Rule 17.2(a)).	tion No ved in this National Stage			
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DETAILED ACTION

Examiner's Response to Applicant's Remarks

1. Applicant's arguments submitted amendment filed on 01/03/2005 with respect to newly added claims 17-32 have been acknowledged.

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 17-24 and 26-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peters et al. (U.S. Patent No. 6,415,373 and Peters hereinafter) in view of Baru et al. (U.S. Patent No. 5,970,495 and Baru hereinafter).

As to claims 17 and 26, Peters teaches a first server (i.e., "Fig. 1 illustrates an example computer system 40 in which the present invention may be used. The computer system includes a plurality of storage units 42. A storage unit is a device with a nonvolatile computer-readable medium, such as a disk, on which data may

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be stored." ... "For example, the storage unit 42 may be a server computer which stores data in a data file in the file system of the server. There may be an arbitrary number of storage units in the computer system 40. Applications 44 are systems that requests access to the storage units 42 via requests to the storage units over a computer network 46. The storage units 42 may deliver data to or receive data from the applications 44 over the network 46." ... "Applications 44 also may be called "clients." One or more catalog managers 49 may also be used. A catalog manager is a database, accessible by the applications 44, that maintains information about the data available on the storage units 42." ... "data to be stored on the storage units 42 is divided into segments. Each segment is copied. Each copy is stored on a different one of the storage units 42." ... "Referring again to FIG. 1, when an application 44 requests access to a selected segment of data on one of the storage units 42, the storage unit places the request on a queue 48 that is maintained for the storage unit. Applications may make such requests independently of each other or any centralized control, which makes the system more readily scalable. The selection of a storage unit to which a request is sent may be controlled such that random fluctuations in the load applied by multiple applications 44 on multiple storage units 42 are balanced statistically and more equally over all of the storage units 42." The preceding text excerpts clearly indicate that multiple storage units, which may be servers or storage disks connected to servers, are linked to a plurality of applications/clients through a centralized control or a catalog manager. Therefore the arbitrary numbers of servers are the first server, second server, ..., nth server. The first server is associated with the first disk or the first server only can access data from the first disk. The second server is associated with the second disk etc. The clients request i.e. (I/O requests) for data from storage units go through the catalog manager. The catalog manager decides to which storage unit or the server the request should go to, is based on the load condition of the storage units. The data is divided into segments/partitions. Each segment of data is copied to other storage units.) (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) operative to receive I/O requests (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) from a requesting computer (i.e., applications or clients) (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5); a second server (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) operative to receive I/O requests (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) from said requesting computer (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5); a managing computer (i.e., the centralized control or the

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catalog manager) (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) in data communication with said first and second servers (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5); a first storage unit (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5); and a second storage unit (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5), said first storage unit being accessible by said first server (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) but not by said second (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) said managing computer (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) operative to obtain data access load conditions (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) from said first and second servers (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5),, is based on said data access load conditions (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) said managing computer (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) operative to: select said second storage unit (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5); cause said second server to access said second storage unit (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5); and transmit information to said requesting computer (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) that said first data is to be accessed via said second server (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

Peters does not explicitly teach moving a first data partition stored in said first storage unit to said second storage unit.

Baru teaches moving (i.e., "The invention provides a method and apparatus for distributing data of a table partitioned across a group of nodes of a parallel database system to achieve substantially uniform resource loading of the nodes while reducing the amount of data movement." ... "each of the nodes is associated with storage and processing resources." ... "comparing the resource loading to obtain a substantially uniform distribution with reduced required movement of data and then moving the identified sub-partitions to the nodes have lower resource

loading to balance the loading of the node containing partitions of the table." The preceding text excerpts clearly indicate that the data is partitioned/divided into multiple nodes/storage units, is based on the load condition of the nodes/storage units data is moved between nodes/storage units. The meaning of "move" by the Microsoft technical dictionary is copying data to the destination and deleting from the originating location.) (Fig. 2; col 1, lines 60-67; col 2, lines 1-2, lines 25-35) a first data partition (Fig. 2; col 1, lines 60-67; col 2, lines 1-2, lines 25-35) to said second storage unit (Fig. 2; col 1, lines 60-67; col 2, lines 1-2, lines 25-35).

It would have been obvious to a person of ordinary skill in the art at the time of Applicant's invention to modify the teachings of Peters with the teachings of Baru to include moving a first data partition stored in said first storage unit to said second storage unit with the motivation to achieve a substantially uniform resource loading of the nodes while reducing the amount of data movement (Baru, col 1, lines 60-65).

As to claims 18 and 27, Peters teaches that said first data partition is copied (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) from said first storage unit to said second storage unit (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5)

Peters does not explicitly teach that subsequent to said first data partition being copied to said second storage unit, said first data partition is deleted from said first storage unit, thereby effecting a move of said first data partition to said second storage unit.

Baru teaches that subsequent to said first data partition being copied to said second storage unit, said first data partition is deleted from said first storage unit, thereby effecting a move of said first data partition to said second storage unit (i.e., "The

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invention provides a method and apparatus for distributing data of a table partitioned across a group of nodes of a parallel database system to achieve substantially uniform resource loading of the nodes while reducing the amount of data movement." ... "each of the nodes is associated with storage and processing resources." ... "comparing the resource loading to obtain a substantially uniform distribution with reduced required movement of data and then moving the identified sub-partitions to the nodes have lower resource loading to balance the loading of the node containing partitions of the table." The preceding text excerpts clearly indicate that the data is partitioned/divided into multiple nodes/storage units, is based on the load condition of the nodes/storage unit's data is moved between nodes/storage units. The meaning of "move" by the Microsoft technical dictionary is copying data to the destination and deleting from the originating location.) (Fig. 2; col 1, lines 60-67; col 2, lines 1-2, lines 25-35).

It would have been obvious to a person of ordinary skill in the art at the time of Applicant's invention to modify the teachings of Peters with the teachings of Baru to include that subsequent to said first data partition being copied to said second storage unit, said first data partition is deleted from said first storage unit, thereby effecting a move of said first data partition to said second storage unit with the motivation to achieve a substantially uniform resource loading of the nodes while reducing the amount of data movement (Baru, col 1, lines 60-65).

As to claims 19 and 29, Peters teaches that the said requesting computer is a front-end server that receives requests from client machines, said first server and second server each being a back-end server which receives requests from said front-end server (i.e., "Fig.1 illustrates an example computer system 40 in which the present invention may be used. The computer system includes a plurality of storage units 42. A storage unit is a device with a nonvolatile computer-readable medium, such as a disk, on which data may be stored." ... "For example, the storage unit 42 may be a server computer which stores data in a data file in the file system of the server. There may be an arbitrary number of

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storage units in the computer system 40. Applications 44 are systems that requests access to the storage units 42 via requests to the storage units over a computer network 46. The storage units 42 may deliver data to or receive data from the applications 44 over the network 46." ... "Applications 44 also may be called "clients." One or more catalog managers 49 may also be used. A catalog manager is a database, accessible by the applications 44, that maintains information about the data available on the storage units 42." ... "data to be stored on the storage units 42 is divided into segments. Each segment is copied. Each copy is stored on a different one of the storage units 42." ... "Referring again to FIG. 1, when an application 44 requests access to a selected segment of data on one of the storage units 42, the storage unit places the request on a queue 48 that is maintained for the storage unit. Applications may make such requests independently of each other or any centralized control, which makes the system more readily scalable. The selection of a storage unit to which a request is sent may be controlled such that random fluctuations in the load applied by multiple applications 44 on multiple storage units 42 are balanced statistically and more equally over all of the storage units 42." The preceding text excerpts clearly indicate that multiple storage units, which may be servers or storage disks connected to servers, are linked to a plurality of applications/clients through a centralized control or a catalog manager or the front end server, which front ends the clients. Therefore the arbitrary numbers of servers are the first server, second server, ..., nth server. The first server is associated with the first disk or the first server only can access data from the first disk. The second server is associated with the second disk etc. The clients request i.e. (I/O requests) for data from storage units go through the catalog manager. The catalog manager (i.e., the front end server) decides to which storage unit or the server (i.e. the back end servers) the request should go to, is based on the load condition of the storage units. The data is divided into segments/partitions. Each segment of data is copied to other storage units.) (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

As to claims 20 and 23, Peters teaches a storage system, said storage system comprising said first storage unit and said second storage unit, wherein a communication port in said second server can be configured for data communication

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with a communication port in said storage system for data access to said second storage unit (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

As to claim 21, Peters teaches that a first storage system, comprising said first storage unit and a second storage system comprising said second storage unit (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

As to claims 22 and 30, Peters teaches that additional storage units being accessed by additional servers, said requesting computer being informed of said additional servers (i.e., "Fig. 1 illustrates an example computer system 40 in which the present invention may be used. The computer system includes a plurality of storage units 42. A storage unit is a device with a nonvolatile computer-readable medium, such as a disk, on which data may be stored." ... "For example, the storage unit 42 may be a server computer which stores data in a data file in the file system of the server. There may be an arbitrary number of storage units in the computer system 40. Applications 44 are systems that requests access to the storage units 42 via requests to the storage units over a computer network 46. The storage units 42 may deliver data to or receive data from the applications 44 over the network 46." ... "Applications 44 also may be called "clients." One or more catalog managers 49 may also be used. A catalog manager is a database, accessible by the applications 44, that maintains information about the data available on the storage units 42." ... "data to be stored on the storage units 42 is divided into segments. Each segment is copied. Each copy is stored on a different one of the storage units 42." ... "Referring again to FIG. 1, when an application 44 requests access to a selected segment of data on one of the storage units 42, the storage unit places the request on a queue 48 that is maintained for the storage unit. Applications may make such requests independently of each other or any centralized control, which makes the system more readily scalable. The selection of a storage unit to which a request is sent may be controlled such that random fluctuations in the load applied by multiple applications 44 on multiple storage units 42 are balanced statistically and more equally over all of the storage units 42." The preceding text excerpts clearly indicate that

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multiple storage units, which may be servers or storage disks connected to servers, are linked to a plurality of applications/clients through a centralized control or a catalog manager or the front end server, which front ends the clients. Therefore the arbitrary numbers of servers are the first server, second server, ..., nth server. The first server is associated with the first disk or the first server only can access data from the first disk. The second server is associated with the second disk etc. The clients request i.e. (I/O requests) for data from storage units go through the catalog manager. The catalog manager (i.e., the front end server) decides to which storage unit or the server (i.e. the back end servers) the request should go to, is based on the load condition of the storage units. The data is divided into segments/partitions. Each segment of data is copied to other storage units.) (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

Peters does not explicitly teach that moving said first data partition from said first storage unit to said second storage unit includes copying it from said first storage unit to said second storage unit, and subsequent to being copied to said second storage unit said first data partition is deleted from said first storage unit, wherein additional data partitions in said first storage unit can be similarly moved to additional storage units.

Baru teaches that moving said first data partition from said first storage unit to said second storage unit includes copying it from said first storage unit to said second storage unit, and subsequent to being copied to said second storage unit said first data partition is deleted from said first storage unit, wherein additional data partitions in said first storage unit can be similarly moved to additional storage units (i.e., "The invention provides a method and apparatus for distributing data of a table partitioned across a group of nodes of a parallel database system to achieve substantially uniform resource loading of the nodes while reducing the amount of data movement." ... "each of the nodes is associated with storage and processing resources." ... "comparing the resource loading to obtain a substantially uniform distribution with reduced required movement of data and then moving the identified sub-partitions to the nodes have lower resource loading to balance the loading of the node containing partitions of the table." The preceding text excerpts clearly indicate that the data is partitioned/divided

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into multiple nodes/storage units, is based on the load condition of the nodes/storage units data is moved between nodes/storage units and that includes 1 .. nth storage units. The meaning of "move" by the Microsoft technical dictionary is copying data to the destination and deleting from the originating location.) (Fig. 2; col 1, lines 60-67; col 2, lines 1-2, lines 25-35).

It would have been obvious to a person of ordinary skill in the art at the time of Applicant's invention to modify the teachings of Peters with the teachings of Baru to include that moving said first data partition from said first storage unit to said second storage unit includes copying it from said first storage unit to said second storage unit, and subsequent to being copied to said second storage unit said first data partition is deleted from said first storage unit, wherein additional data partitions in said first storage unit can be similarly moved to additional storage units with the motivation to achieve a substantially uniform resource loading of the nodes while reducing the amount of data movement (Baru, col 1, lines 60-65).

As to claim 24, Peters teaches a switch (i.e., "In the present invention, topology will vary depending on the physical installation. A non-blocking, switch-based network in which each node, i.e., client or storage unit, is connected directly to the same switch may be used.") (col 14, lines 28-41) Operative for data communication among devices connected to said switch (col 14, lines 28-41), said first server and said second server (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) being connected to said switch (col 14, lines 28-41), said storage system (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) being connected to said switch (col 14, lines 28-41) so that said first and second servers (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) can access data stored in said first and second storage units (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 59-67; col 8, lines

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1-5), said switch (col 14, lines 28-41) further being operative to direct data requests from one of said first and second servers (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) to one of said first and second storage units (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

As to claim 28, Peters teaches that the managing computer is further operative to perform a second configuration operation wherein a second server accesses said second storage unit, if said first configuration operation cannot be performed (i.e., "Fig.1 illustrates an example computer system 40 in which the present invention may be used. The computer system includes a plurality of storage units 42. A storage unit is a device with a nonvolatile computer-readable medium, such as a disk, on which data may be stored." ... "For example, the storage unit 42 may be a server computer which stores data in a data file in the file system of the server. There may be an arbitrary number of storage units in the computer system 40. Applications 44 are systems that requests access to the storage units 42 via requests to the storage units over a computer network 46. The storage units 42 may deliver data to or receive data from the applications 44 over the network 46." ... "Applications 44 also may be called "clients." One or more catalog managers 49 may also be used. A catalog manager is a database, accessible by the applications 44, that maintains information about the data available on the storage units 42." ... "data to be stored on the storage units 42 is divided into segments. Each segment is copied. Each copy is stored on a different one of the storage units 42." ... "Referring again to FIG. 1, when an application 44 requests access to a selected segment of data on one of the storage units 42, the storage unit places the request on a queue 48 that is maintained for the storage unit. Applications may make such requests independently of each other or any centralized control, which makes the system more readily scalable. The selection of a storage unit to which a request is sent may be controlled such that random fluctuations in the load applied by multiple applications 44 on multiple storage units 42 are balanced statistically and more equally over all of the storage units 42." The preceding text excerpts clearly indicate that multiple storage units, which may be servers or storage disks connected to servers, are linked to a plurality of applications/clients through a centralized control or a catalog manager or the front end server, which front ends

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the clients. Therefore the arbitrary numbers of servers are the first server, second server, ..., nth server. The first server is associated with the first disk or the first server only can access data from the first disk. The second server is associated with the second disk etc. The clients request i.e. (I/O requests) for data from storage units go through the catalog manager. The catalog manager (i.e., the front end server) decides to which storage unit or the server (i.e. the back end servers) the request should go to, is based on the load condition of the storage units. The data is divided into segments/partitions. Each segment of data is copied to other storage units.) (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

As to claim 31, Peters teaches a switching device (col 14, lines 28-41), said first server (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) in data communication with said switching device (col 14, lines 28-41), said managing computer (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) further being operative to obtain loading information (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 59-67; col 8, lines 1-5) from said first server (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5) or said switching device (col 14, lines 28-41).

4. Claim 25 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Peters et al. (U.S. Patent No. 6,415,373 and Peters hereinafter) in view of Baru et al. (U.S. Patent No. 5,970,495 and Baru hereinafter) as applied to claims above, and further in view of Microsoft Corporation ("Windows 95/98 PCs- An Introduction", pages 1-4 and Microsoft hereinafter).

As to claims 25 and 32, Peters in view of Baru teaches a management computer, a first server, a second server, a first storage unit, a second storage unit, wherein the

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management computer selects the storage unit in accordance with receiving an indication for moving (i.e., "Fig. 1 illustrates an example computer system 40 in which the present invention may be used. The computer system includes a plurality of storage units 42. A storage unit is a device with a nonvolatile computer-readable medium, such as a disk, on which data may be stored." ... "For example, the storage unit 42 may be a server computer which stores data in a data file in the file system of the server. There may be an arbitrary number of storage units in the computer system 40. Applications 44 are systems that requests access to the storage units 42 via requests to the storage units over a computer network 46. The storage units 42 may deliver data to or receive data from the applications 44 over the network 46." ... "Applications 44 also may be called "clients." One or more catalog managers 49 may also be used. A catalog manager is a database, accessible by the applications 44, that maintains information about the data available on the storage units 42." ... "data to be stored on the storage units 42 is divided into segments. Each segment is copied. Each copy is stored on a different one of the storage units 42." ... "Referring again to FIG. 1, when an application 44 requests access to a selected segment of data on one of the storage units 42, the storage unit places the request on a queue 48 that is maintained for the storage unit. Applications may make such requests independently of each other or any centralized control, which makes the system more readily scalable. The selection of a storage unit to which a request is sent may be controlled such that random fluctuations in the load applied by multiple applications 44 on multiple storage units 42 are balanced statistically and more equally over all of the storage units 42." The preceding text excerpts clearly indicate that multiple storage units, which may be servers or storage disks connected to servers, are linked to a plurality of applications/clients through a centralized control or a catalog manager or the front end server, which front ends the clients. Therefore the arbitrary number of servers are the first server, second server, ..., nth server. The first server is associated with the first disk or the first server only can access data from the first disk. The second server is associated with the second disk etc. The clients request i.e. (I/O requests) for data from storage units go through the catalog manager. The catalog manager (i.e., the front end server) decides to which storage unit or the server (i.e. the back end servers) the request should go to, is based on the load condition of the storage units. The data is divided into segments/partitions. Each segment of data is copied to other storage units.) (Fig. 1; col 6, lines 12-67; col 7, lines 59-67; col 8, lines 1-5).

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Peters in view of Baru does not explicitly teach that the management computer includes a display unit operable to present a first display area and a second display area, said first display area to display one or more first symbols that represent said first server, said second server, or said first storage unit, and having second symbols that represent communication paths, said second display area having third symbols that represent said second storage unit, wherein said management computer selects the second storage unit in accordance with receiving an indication for moving one of said third symbols from said second display area into said first display area.

Microsoft teaches that the management computer (i.e., "A Network Server controls our computer network.") (page 1) includes a display unit operable to present a first display area and a second display area (i.e., "Mapped drives appear, as an extra drive on your computer, yet are located elsewhere on the network Eg S Drive = Students (Curriculum Server 1) T Drive = Teachers (curriculum Server 1)" ... "Drop and Drag This feature allows you to move files and folders from one folder to another in Windows 95/98" The preceding text excerpts clearly indicate that a computer in the network e.g., a network server with windows 95/98 shows symbols of other storage units in other servers e.g., curriculum server. An user can move data e.g., a symbol of a file from one server to the other server by dragging the symbol from one area to the other.) (page 1; page 3; page 4), said first display area to display one or more first symbols that represent said first server (page 1; page 3; page 4), said second server (page 1; page 3; page 4), or said first storage unit (page 1; page 3; page 4), and having second symbols that represent communication paths (page 1; page 3; page 4), said second display area having third symbols that represent said second storage unit (page 1; page 3; page 4), wherein said management computer (page 1; page 3; page 4) selects the second storage unit (page 1; page 3; page 4) in

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accordance with receiving an indication for moving (page 1; page 3; page 4) one of said third symbols from said second display area into said first display area (page 1; page 3; page 4).

It would have been obvious to a person of ordinary skill in the art at the time of Applicant's invention to modify the teachings of Peters as modified by Baru with the teachings of Microsoft to include that the management computer includes a display unit operable to present a first display area and a second display area, said first display area to display one or more first symbols that represent said first server, said second server, or said first storage unit, and having second symbols that represent communication paths, said second display area having third symbols that represent said second storage unit, wherein said management computer selects the second storage unit in accordance with receiving an indication for moving one of said third symbols from said second display area into said first display area with the motivation to move files from and folders from one folder to another (Microsoft, page 4).

Points of Contact

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Apu M. Mofiz whose telephone number is (571) 272-4080. The examiner can normally be reached on Monday – Thursday 8:00 A.M. to 4:30 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached at (571) 272-4083. The fax numbers for the group is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-9600.

Apu M. Mofiz

Patent Examiner

Technology Center 2100

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